

SERVICE MANUAL

FULLY AUTOMATIC DD TURNTABLE

SANSUI P-L51

(Silver & Black Model)



CAUTION

1. Parts identified by the \triangle symbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

•SPECIFICATIONS

Type.....	Direct-drive turntable
Rated speeds.....	33-1/3, 45 rpm
Platter.....	Aluminum alloy diecast, 306 mm (12-1/16") diameter, 0.6 kg (1.3 lbs.) weight
Motor	Coreless and Brushless DC/FG Servo
Wow/flutter	0.028% (WRMS)
Signal-to-noise ratio	Better than 72 dB (DIN-B) Better than 60 dB (IEC-B)
Tonearm	Statically-balanced type
Effective tonearm length	142 mm (5-5/8")
Cartridge.....	Dual Magnet type (SV-S707)
Output voltage.....	2.5 mV (1,000 Hz, 35.4 mm/sec)
Correct load impedance ...	47 kilohms
Frequency response.....	10 ~ 20,000 Hz
Stylus	0.6 mil diamond stylus (SN-707 replacement stylus)

Others

Power voltage	110 ~ 120/220 ~ 240V (50/60 Hz)
For U.S.A. and Canada	120 V (60 Hz)
Power consumption	25 W
Dimensions	430 mm (16-29/32") W 114 mm (4-1/2") H 373 mm (14-11/16") D
Weight	6.9 kg (15.2 lbs.) net 8.2 kg (18.1 lbs.) packed

* Design and specifications subject to changes without notice for improvements.

Sansui

SANSUI ELECTRIC CO., LTD.

CAUTION

1. The symbols, UL, CSA, SA, BS, UK, EU, AS and XX (EXPORT) on the parts list and the schematic diagram mean followings respectively.

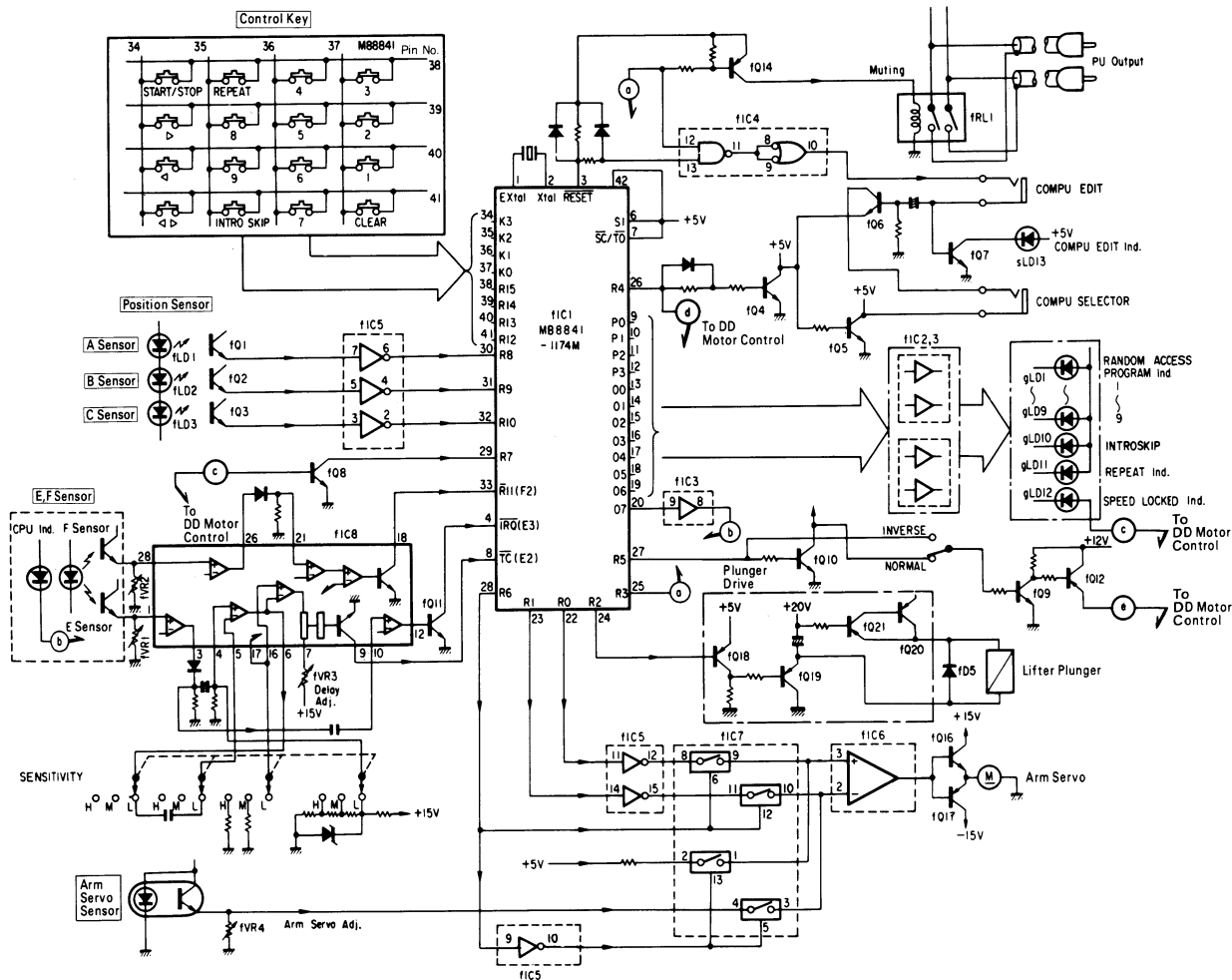
UL.....	Manufactured for U.S.A market. (Underwriters Laboratories approved model.)
CSA	Manufactured for Canadian market.
SA.....	Manufactured for South African market.
BS, UK	Manufactured for United Kingdom market.
EU	Manufactured for European market.
AS.....	Manufactured for Australian market.
XX (EXPORT)	Standard Version.
NON MARK	Common Parts.
2. Some printed circuit boards are not supplied as the assembled. To separate these in this service manual, the stock No's are not indicated at the ends of the board names. However, the individual parts on the circuit boards are provided by orders.
3. Since some of capacitors and resistors are omitted from parts lists in this service manual, refer to the Common Parts List for capacitors & resistors, which was issued on February 1983.
4. Abbreviations in this service manual are as follows.

• Abbreviations List

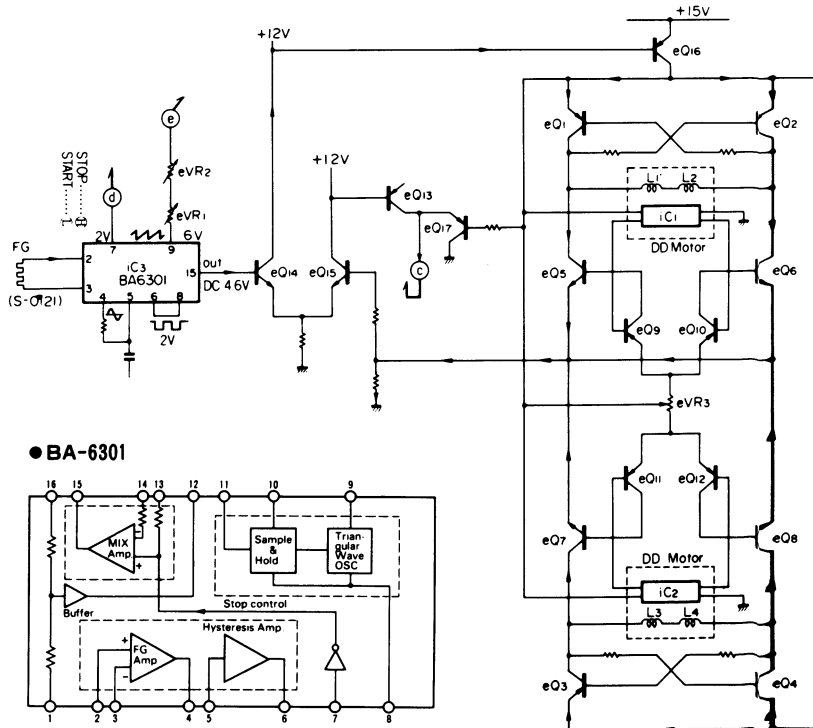
C.R.	: Carbon Resistor	E.B.L.	: Low Leak Bi-Polar
S.R.	: Solid Resistor		Electrolytic Capacitor
Ce.R.	: Cement Resistor	Ta.C.	: Tantalum Capacitor
M.R.	: Metal Film Resistor	F.C.	: Film Capacitor
F.R.	: Fusing Resistor	M.P.	: Metalized Paper Capacitor
N.I.R.	: Non-Inflammable Resistor	P.C.	: Polystyrene Capacitor
A.R.	: Array Resistor	G.C.	: Gimmic Capacitor
C.C.	: Ceramic Capacitor	A.C.	: Array Capacitor
C.T.	: Ceramic Capacitor,	V.R.	: Variable Resistor
	Temperature Compensation	S.V.R.	: Semi Variable Resistor
E.C.	: Electrolytic Capacitor	SW.	: Switch
E.L.	: Low Leak Electrolytic	Chip R.	: Chip Resistor
	Capacitor	Chip C.	: Chip Capacitor
E.B.	: Bi-Polar Electrolytic		
	Capacitor		

1. BLOCK DIAGRAM

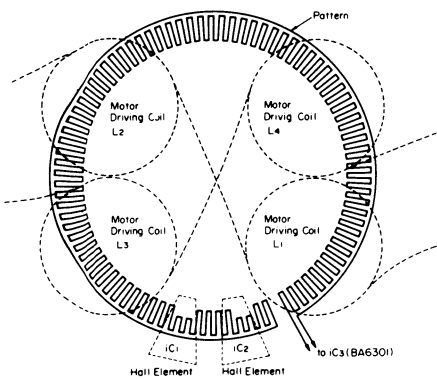
•Tone Arm Control Section



- **DD Motor Control Section**

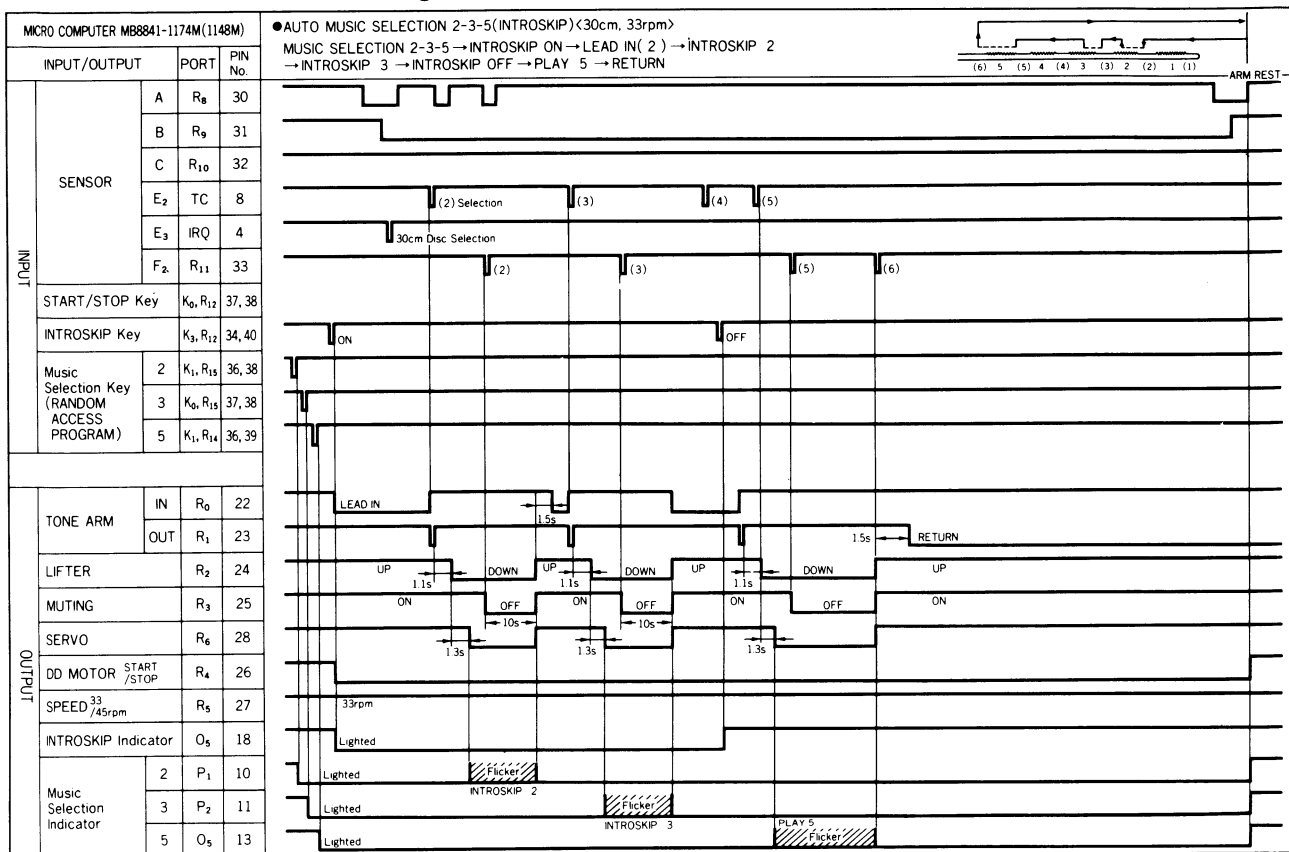


**Parttern drawing of motor section
(S-O121 Motor Control Circuit Board)**

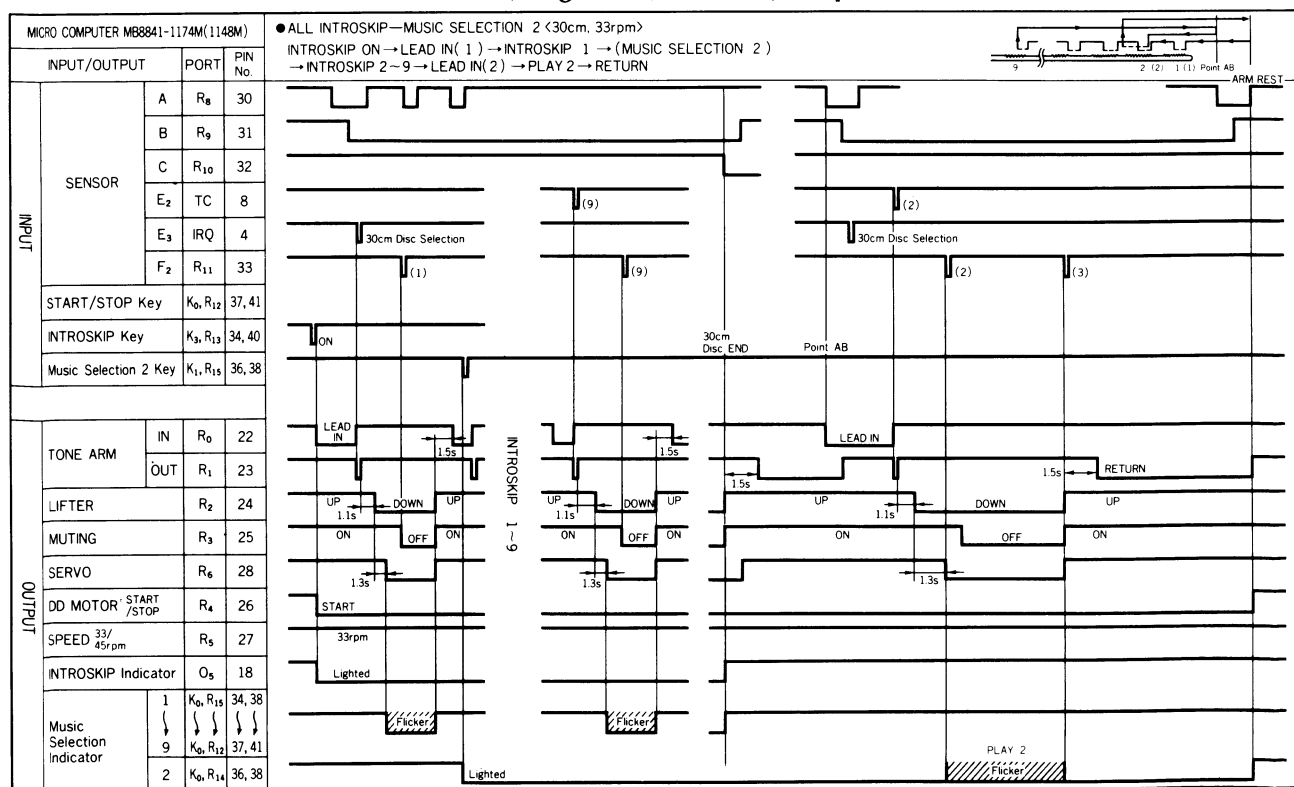


2. MICRO COMPUTER, MB8841-1174M TIMING CHART

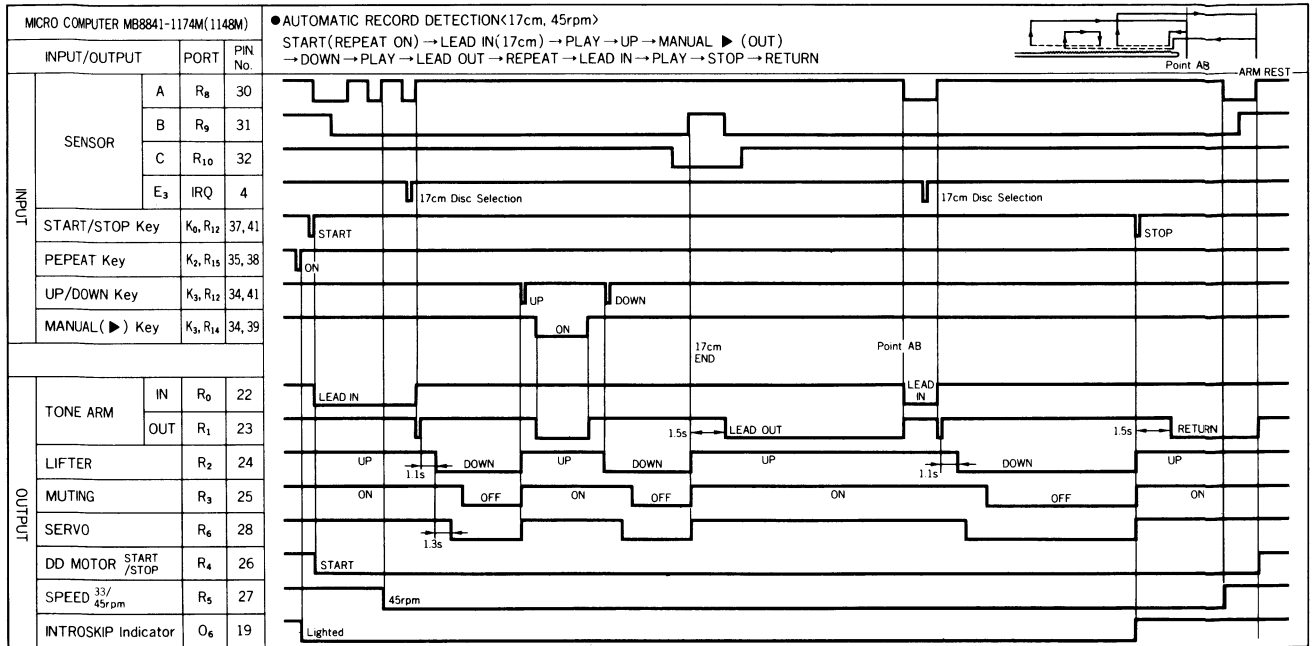
2-1. AUTO MUSIC SELECTION Program 2-3-5 (Introskip) <30cm, 33rpm>



2-2. ALL INTROSKIP-MUSIC SELECTION (Program 2) <30cm, 33rpm>



2-3. AUTOMATIC DISC SIZE DETECTION <17cm, 45rpm>



3. ADJUSTMENTS

3-1. Adjustment of Automatic Disc Size Selection Operation (See Figs. 3-1 and 3-3)

- 1) By using 30 cm size disc, actually carry out the automatic disc size selection operation (lead-in operation). Adjust the lead-in adjusting cam (See Fig. 3-3) so that the stylus tip may come down to the position (the lead-in groove position) 146 ~ 146.5 mm away from the disc center (See Fig. 3-1).
- 2) By using 17 cm size disc, actually carry out the automatic disc size selection operation (lead-in operation). Confirm that the stylus tip may come down to the lead-in groove position.

Fig. 3-1

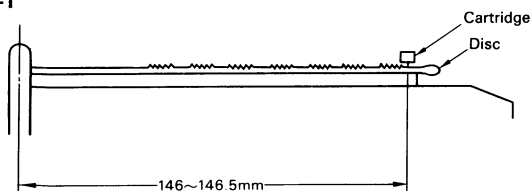


Fig. 3-2(a)

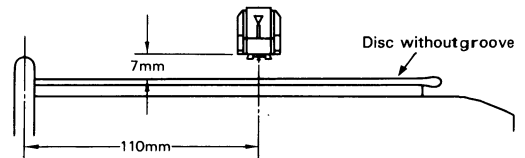
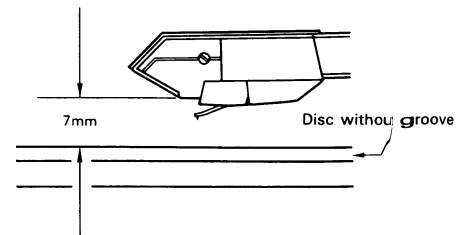


Fig. 3-2(b)



3-2. Adjustment of Automatic Music Selection Operation (See Figs. 3-2 (a), (b) and 3-3)

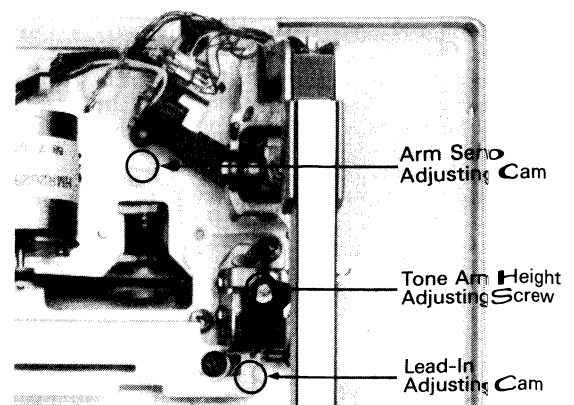
• Required disc and measuring instruments

- 1) Multi Meter (DC voltmeter)
Input impedance: 50kohm/V or more. (The higher, the better)
- 2) A vinyl chloride record disc without grooves or with wider leadout spiral than usual.
- 3) A rule with graduation marks starting from the edge.

A. Tone Arm Height Adjustment

Adjust the stylus and disc as shown in Fig. 3-2 (a), (b) by rotating the tone arm height adjusting screw (See Fig. 3-3). (Stop the stylus at a position about 110 mm away from the disc center.)

Fig. 3-3



B. Sensitivity adjustment of E and F sensor

1. Setting

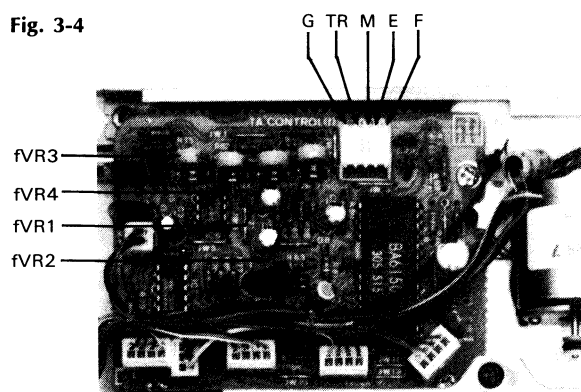
At the tone arm position, in case of a record disc without grooves, stop the stylus at a position about 105 mm away from the disc center. In case of a record disc having grooves, stop the stylus above the flat surface nears 105 mm away from the disc center.

2. How to adjust (See Fig. 3-4)

- At the tone arm up position, connect the DC voltmeter across the test terminal "E" and "G (ground)" (S-0178) and then adjust the voltage to DC 2.5V by rotating the volume (fVR1, S-0178). <E sensor adjustment>
- Move the tone arm downward.
- Connect the DC voltmeter across the test terminal "F" and "G (ground)" and then adjust the voltage to DC 2.5V by rotating the volume (fVR2, S-0178). <F sensor adjustment>

Note: When adjusting both the sensors with the stylus stopped on a lead-over groove of an ordinary record disc, note that there is a difference in detection position between E sensor (leading sensor) and F sensor.

Fig. 3-4



3-3. Delay adjustment of E₂ Signal

- The E₂ signal is a music number counting signal required for moving down the tone arm at a desired music position during the automatic music selection operation.

1. Objective

- Since the E sensor is located about 2 mm before the stylus, it is necessary to electrically delay the signal from the E sensor.
- Since some of the mechanical parts are moved with accuracy of the order of milliseconds, it is necessary to adjust error due to mechanical operation.
- Since detection error occurs due to an eccentricity of the record disc, it is necessary to adjust the error.

2. Setting

Use the record disc with narrower music intervals.

3. Adjustment (See Figs. 3-4, 3-7, 3-8 and Top View on page 12)

- Perform the respective lead-in operation for selected music track, and adjust the operation by rotating the volume (fVR3, S-0178) as shown in Fig. 3-6, 3-7 (with the tone arm placed on the arm rest) so that the stylus comes down on or a little before the lead-over grooves for the music track. If the volume (fVR3, S-0178) is rotated clockwise, the lift-down position of the stylus is shifted inward. However, if the stylus comes down before the lead-over grooves, be sure that the muting switch is turned off within 20 sec after the stylus moves down. The muting time from 4 to 6 sec is desirable.

3-4. Lateral-direction Adjustment of E and F Sensor

- * If automatic music selection play is unsufficient by adjustments 3-2 and 3-3, perform the following.

1. Setting

- Mount a record disc in which many music groove.
- Set the sensitivity selection switch to H when the music interval groove is narrow, and to M when medium.

2. How to adjust (See Figs. 3-5 and 3-6)

- Push the music selection switch for the first music, and also the start/stop switch.
- Immediately after the stylus begins to come down, move the arm by hand so that the stylus may trace the disc groove beginning from a position 2 mm or more outward from the lead-over groove.
- Immediately after the above tracing, push the lifter switch twice. Be sure to push it with a time interval of 1 sec or more, because of a ready operation to receive F₂ signal.
- Adjust the positions of E and F sensor by rotating the adjusting screws so that the muting switch can be turned ON (a click sound of relay action is heard) when the stylus has passed through the music interval groove. If the muting switch is turned ON earlier, rotate the adjusting screw clockwise to turn ON the switch later. (The thread pitch is 0.45 mm.)

- * Perform adjustments 3-2 and 3-3 shown left accordingly after completion of 3-4. **Lateral-direction Adjustment of E and F sensor.**

Fig. 3-5

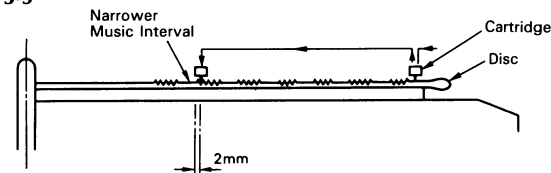


Fig. 3-6

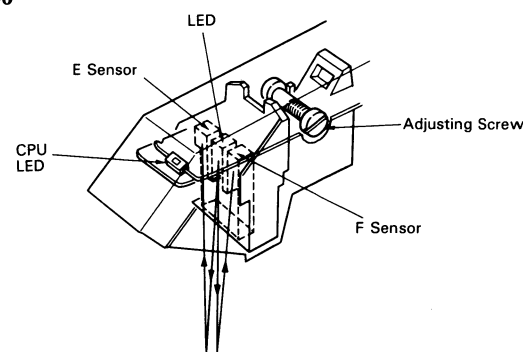


Fig. 3-7

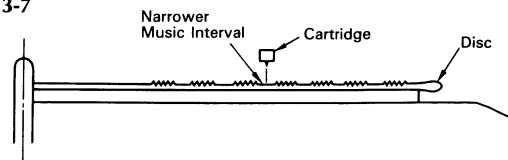
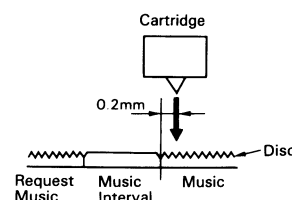


Fig. 3-8



3-5. Speed Adjustment

- 1-a) Set the Speed Selector to Normal.
- 1-b) Mount a 30 cm size record disc and push the start/stop switch.
- 1-c) Adjust eVR1 on the D.D. Motor Control Circuit Board (See Fig. 3-9) so as to standstill the strobo marking pattern.
- 2-a) Set the Speed Selector to Normal.
- 2-b) Mount a 17 cm size record disc and push the start/stop switch.
- 2-c) Adjust eVR2 on the D.D. Motor Control Circuit Board (See Fig. 3-9) so as to standstill the strobo marking pattern.

- Set eVR3 (S-0121) center position.

Fig. 3-9

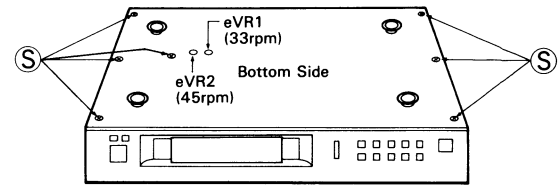
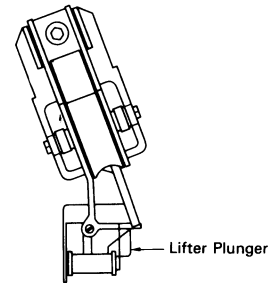


Fig. 3-10



3-6. Arm Servo Signal Adjustment

(See Figs. 3-3, 3-10, 3-11 and 3-12)

- 1) Move the tone arm leftward and stop the stylus at a position about 105 mm away from the disc center by depressing the MANUAL (◀) key.
- 2) Connect the DC voltmeter across the test terminal "TR" and "G" shown in Fig. 3-11.
- 3) The tone arm servo level goes up more when the tone arm is moved rightward slightly by hand.
- 4) Adjust the voltage of "item 3)" to DC 4V by rotating the volume fVR4.
- 5) Move the tone arm downward by depressing UP/DOWN key.
- 6) Rotate the arm servo adjusting cam slowly clockwise just right before the tone arm starts moving outwards, then read the indication on DC voltmeter.
- 7) Next, rotate the arm servo adjusting cam slowly counterclockwise just right before the tone arm starts moving inwards, then read the indication as well.
- 8) Set the fixed value to average voltage between two indications obtained in 6) and 7) above, by rotating fVR4.
- 9) Connect the DC voltmeter across the test terminal "M" and "G" (See Fig. 3-12) and then confirm that the voltage is within $\pm 1V$.
- 10) Check that the tone arm will not move in either direction when the UP/DOWN key is depressed repeatedly, if necessary, rotating the volume (fVR4) slightly.

Fig. 3-11

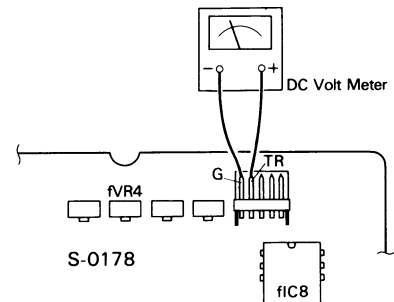
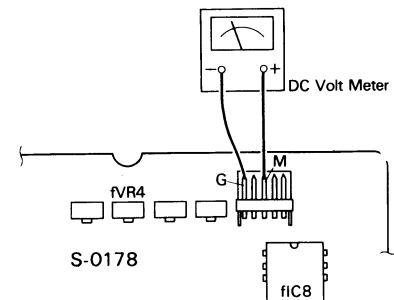


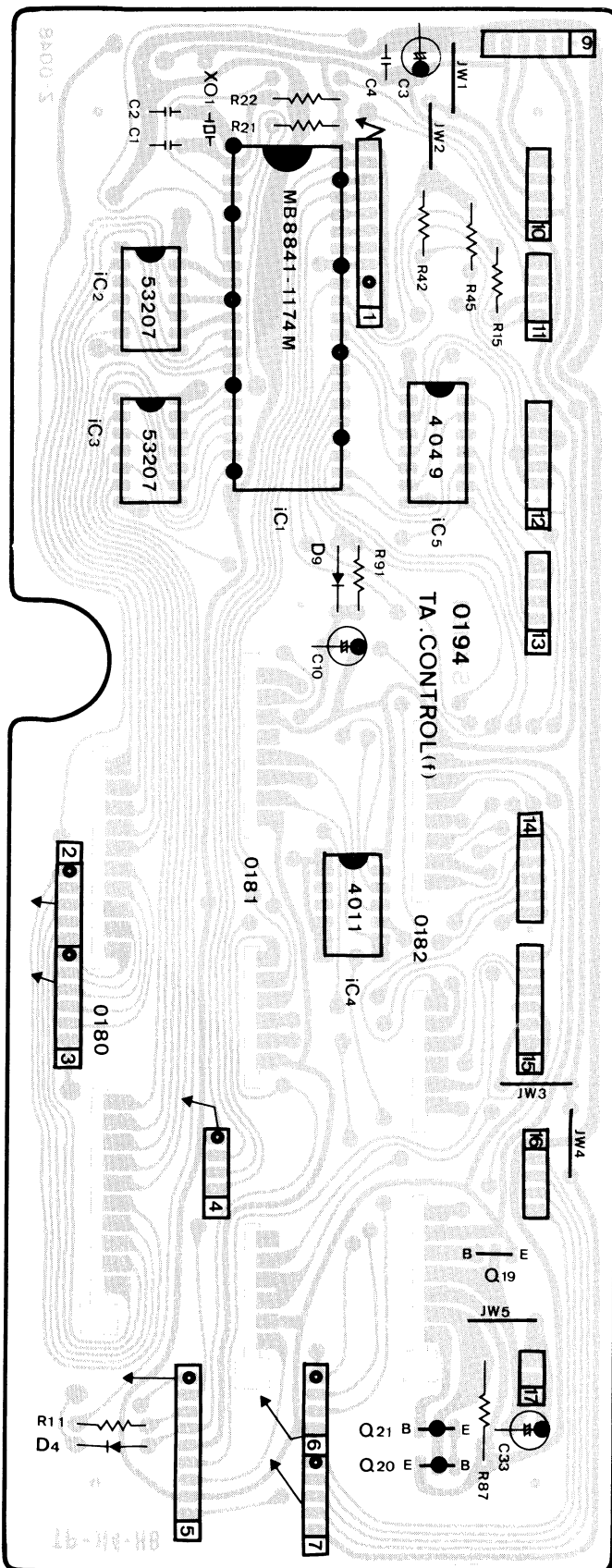
Fig. 3-12




4. PARTS LOCATION & PARTS LIST

4-1. S-0194 Tone Arm Control (Main) Circuit Board (Stock No. 13243301)

Component Side

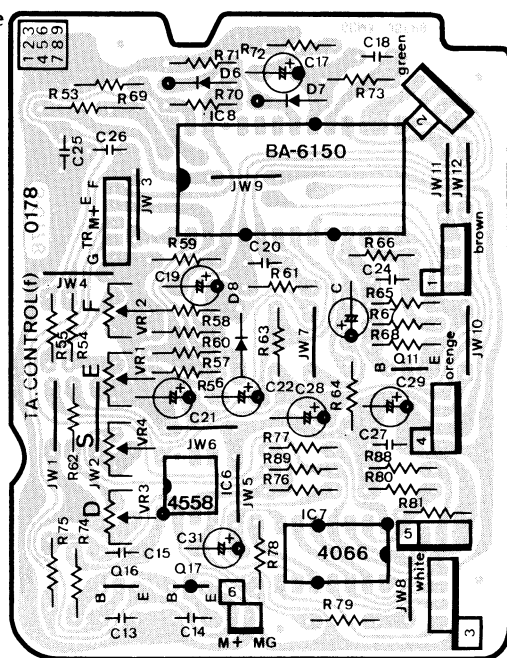


Parts List

Parts No.	Stock No.	Description
•Transistor		
fQ19	46501401	2SD1226
fQ20	46501301	2SB910M
fQ21	07299601	2SA1115
	or 46078701	2SA1048
•IC		
fIC1	46602501	MB8841-1174M
fIC2	46148500	HD7407
	or 46220600	M53207P
	or 46707800	M53217P
fIC3	46148500	HD7407
	or 46220600	M53207P
	or 46707800	M53217P
fIC4	03604000	MSM4011RS
	or 03604100	TC4011P
	or 07207200	MB84011BM
fIC5	03611800	MSM4049RS
	or 46160400	MB84049B
fXO1	46505500	Ceramic Element KBR-3.58M
•Diode		
fD4	07176400	1S2473HS
fD9	07176400	1S2473HS
 fR87	46624400	120Ω 2W N.I.R.

4-2. S-0178 Tone Arm Control (Sub) Circuit Board (Stock No. 13249801)

Component Side

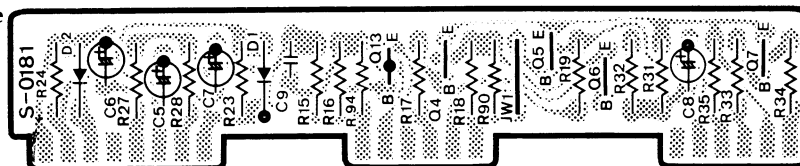


Parts List

Parts No.	Stock No.	Description
• Transistor		
fQ11	46367101	2SC2603
	or 46367301	2SC2458
fQ16	46614101	2SC3243
fQ17	46614001	2SA1283
• IC		
fiC6	03607700	NJM4558D
	or 46580100	M5218P
fiC7	07264600	MSM4066RS
	or 46164300	MB84066B
fiC8	46321300	BA6150
• Diode		
fd6	03117600	1S2473T77
fd7	03117600	1S2473T77
fd8	03117600	1S2473T77
fc17	46407600	22 μ F 25V E.C.
fc18	46284100	0.1 μ F 50V F.C.
fVR1	46180500	200k Ω S.V.R., E sensor adj.
fVR2	46180500	200k Ω S.V.R., F sensor adj.
fVR3	46180600	500k Ω S.V.R., delay adj.
fVR4	46180100	10k Ω S.V.R., arm servo adj.

4-3. S-0181 Compu•Edit/Compu•Selector Circuit Board (Stock No. 13249601)

Component Side

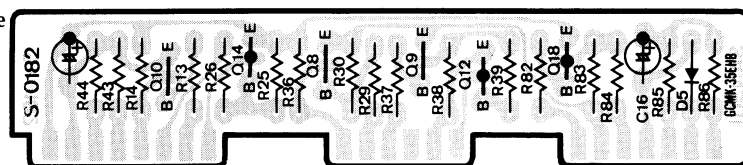


Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
• Transistor			• Diode		
fQ4	46367101	2SC2603	fd1	03117600	1S2473T77
	or 46367301	2SC2458	fd2	03117600	1S2473T77
fQ5	46367101	2SC2603			
	or 46367301	2SC2458			
fQ6	46367101	2SC2603			
	or 46367301	2SC2458			
fQ7	46367101	2SC2603			
	or 46367301	2SC2458			

4-4. S-0182 Motor Control Circuit Board (Stock No. 13249901)

Component Side

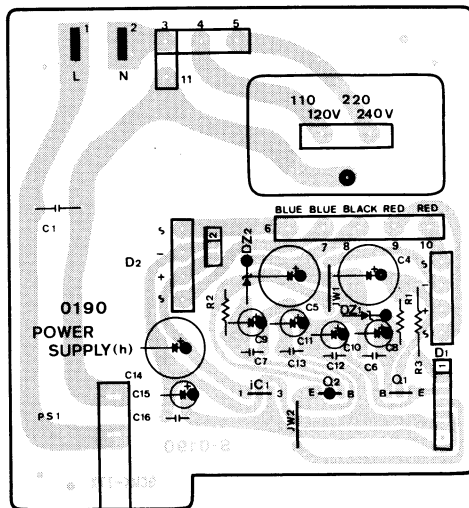


Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
• Transistor			• Diode		
fQ8	46367101	2SC2603	fd5	03117600	1S2473T77
	or 46367301	2SC2458			
fQ9	46367101	2SC2603			
	or 46367301	2SC2458			
fQ10	46367101	2SC2603			
	or 46367301	2SC2458			
fQ12	46367001	2SA1115			
	or 46367201	2SA1048			

4-5. S-0190 Power Supply Circuit Board

Component Side

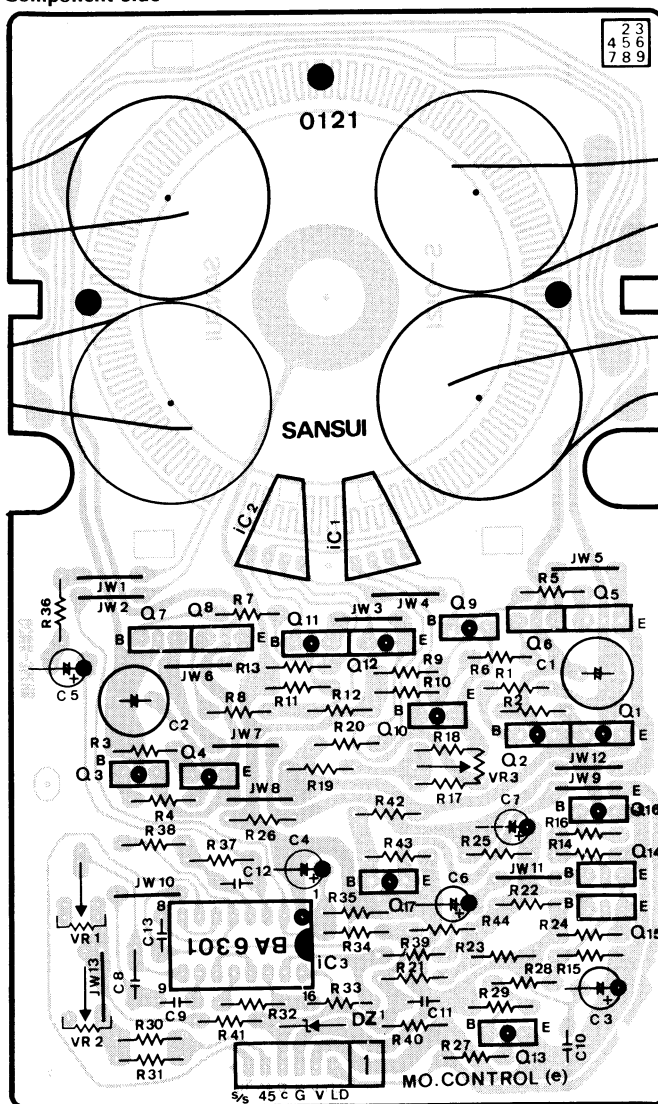


Parts List

Parts No.	Stock No.	Description
•Transistor		
△ hQ1	03083901	2SD313AL
△ hQ2	46149301	2SB744
•IC		
△ hIC1	07183500 or 46144200	μPC78M05H NJM78M05A
•Diode		
△ hD1	03117000	RB-152
△ hD2	03117000	RB-152
•Zener Diode		
hDZ1	46104500	05Z16-X
hDZ2	46104500	05Z16-X
△ hR1	46230200	1kΩ 1/2W N.I.R.
△ hR2	46230200	1kΩ 1/2W N.I.R.
△ hR3	46623400	18Ω 2W N.I.R.
△ hC1	46425800	0.01μF 400V C.C.
△ hSW1	46413900	Push SW., POWER

4-6. S-0121 DD Motor Control Circuit Board

Component Side

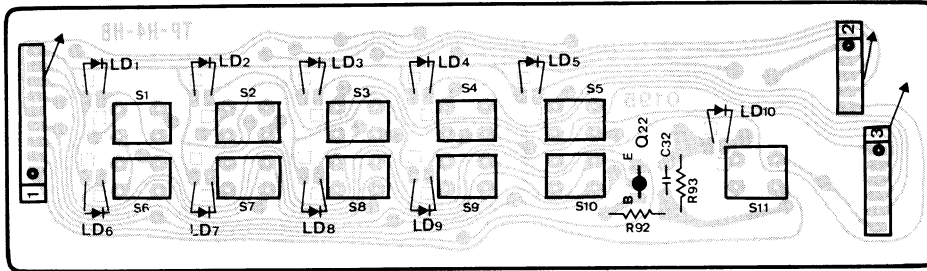


Parts List

Parts No.	Stock No.	Description
•Transistor		
eQ1	46359701	2SA952
eQ2	46359701	2SA952
eQ3	46359701	2SA952
eQ4	46359701	2SA952
eQ5	46359801	2SC2001
eQ6	46359801	2SC2001
eQ7	46359801	2SC2001
eQ8	46359801	2SC2001
eQ9	46367001	2SA1115
	or 46367201	2SA1048
	or 46367401	2SA733A
eQ10	46367001	2SA1115
	or 46367201	2SA1048
	or 46367401	2SA733A
eQ11	46367001	2SA1115
	or 46367201	2SA1048
	or 46367401	2SA733A
eQ12	46367001	2SA1115
	or 46367201	2SA1048
	or 46367401	2SA733A
eQ13	46367001	2SA1115
	or 46367201	2SA1048
	or 46367401	2SA733A
eQ14	46367101	2SC2603
	or 46367301	2SC2458
	or 46367501	2SC945A
eQ15	46367101	2SC2603
	or 46367301	2SC2458
	or 46367501	2SC945A
eQ16	46614001	2SA1283
eQ17	46367001	2SA1115
	or 46367201	2SA1048
	or 46367401	2SA733A
•IC		
eIC1	46354301	HW-301C-Q
	or 46354302	HW-301C-R
eIC2	46354301	HW-301C-Q
	or 46354302	HW-301C-R
eIC3	46354400	BA6301
•Zener Diode		
eDZ1	46113900	05Z12-Y
eR41	46639000	240k Ω 1/4W M.R.
eC1	08451100	22 μ F 16V E.B.
eC2	08451100	22 μ F 16V E.B.
eVR1	46366600	100k Ω (B) S.V.R., 33r.p.m.
eVR2	07241700	200k Ω (B) S.V.R., 45r.p.m.
eVR3	07241000	1k Ω (B) S.V.R., wow and flatter

4-7. S-0195 RANDOM ACCESS PROGRAM, INTROSkip Switch and Indicator Circuit Board

Component Side

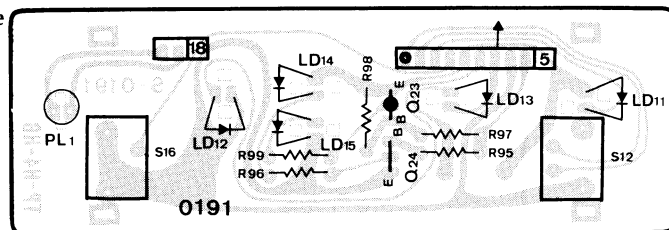


Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
•Transistor fQ22	07299601 or 46078701	2SA1115 2SA1048	gSW2	46549500	Push SW., RANDOM ACCESS PROGRAM
•LED			gSW3	46549500	Push SW., RANDOM ACCESS PROGRAM
gLD1	07250900	TLG-123A	gSW4	46549500	Push SW., RANDOM ACCESS PROGRAM
gLD2	07250900	TLG-123A	gSW5	46549500	Push SW., RANDOM ACCESS PROGRAM
gLD3	07250900	TLG-123A	gSW6	46549500	Push SW., RANDOM ACCESS PROGRAM
gLD4	07250900	TLG-123A	gSW7	46549500	Push SW., RANDOM ACCESS PROGRAM
gLD5	07250900	TLG-123A	gSW8	46549500	Push SW., RANDOM ACCESS PROGRAM
gLD6	07250900	TLG-123A	gSW9	46549500	Push SW., RANDOM ACCESS PROGRAM
gLD7	07250900	TLG-123A	gSW10	46549500	Push SW., CLEAR
gLD8	07250900	TLG-123A	gSW11	46549500	Push SW., INTROSkip
gLD9	07250900	TLG-123A			
gLD10	07250900	TLG-123A			
gSW1	46549500	Push SW., RANDOM ACCESS PROGRAM			

4-8. S-0191 START/STOP, REPEAT Switch and Indicator Circuit Board

Component Side

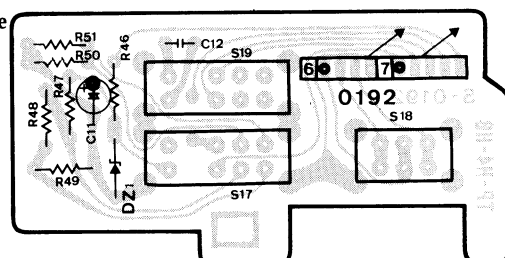


Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
•Transistor fQ23	07299601 or 46078701	2SA1115 2SA1048	gLD13	46095200	TLR123
fQ24	07194801 or 07299701	2SC1815 2SC2603	gLD14	46095200	TLR123
•LED			gLD15	46095200	TLR123
gLD11	46095200	TLR123	gS12	46395900	Push SW., START/STOP
gLD12	07250900	TLG123A	gS16	46395900	Push SW., REPEAT
				46438300	Pilot Lamp 12V 0.1A

4-9. S-0192 SENSITIVITY, NORMAL/INVERSE Switch Circuit Board

Component Side

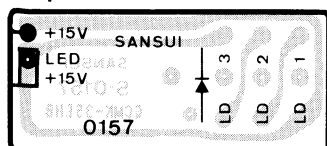


Parts List

Parts No.	Stock No.	Description
•Zener Diode fDZ1	46103100	05Z10-Y
fC12	46701700	0.022μF 50V F.C.
gSW17	07249900	Slide SW., SENSITIVITY
gSW18	07249800	Slide SW., NORMAL/INVERSE
gSW19	07249900	Slide SW., SENSITIVITY

4-10. S-0157A, B, C Sensor (L.E.D.) Circuit Board

Component Side

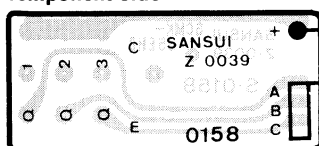


Parts List

Parts No.	Stock No.	Description
•LED		
fLD1	46150400	TLR121
fLD2	46150400	TLR121
fLD3	46150400	TLR121

4-11. S-0158A, B, C Sensor (Photo Transistor) Circuit Board

Component Side

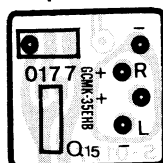


Parts List

Parts No.	Stock No.	Description
•Photo Transistor		
fQ1	46160000	TPS605
fQ2	46160000	TPS605
fQ3	46160000	TPS605

4-12. S-0177 Arm Servo Sensor Circuit Board

Component Side

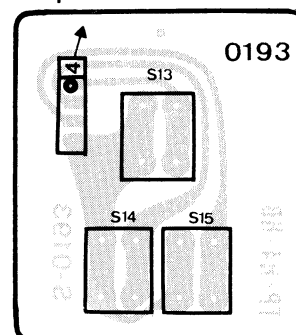


Parts List

Parts No.	Stock No.	Description
fQ15	46603900	Photo Coupler GP-1S03

4-13. S-0193 Tone Arm UP/DOWN, MANUAL Switch Circuit Board

Component Side

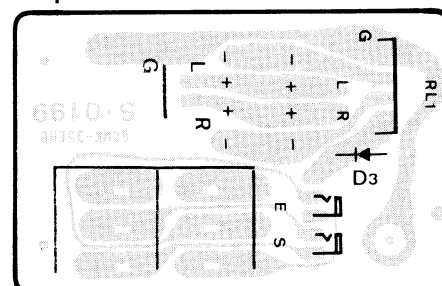


Parts List

Parts No.	Stock No.	Description
•LED		
gLD1	07250900	TLG-123A
gSW13	46371600	Push SW., START/STOP
gSW14	46371600	Push SW., MANUAL ◀
gSW15	46371600	Push SW., MANUAL ▶

4-14. S-0199 Muting Relay Circuit Board

Component Side

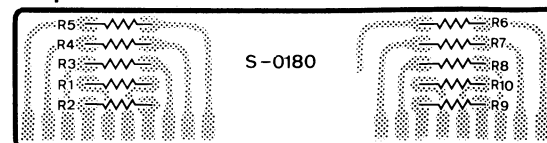


Parts List

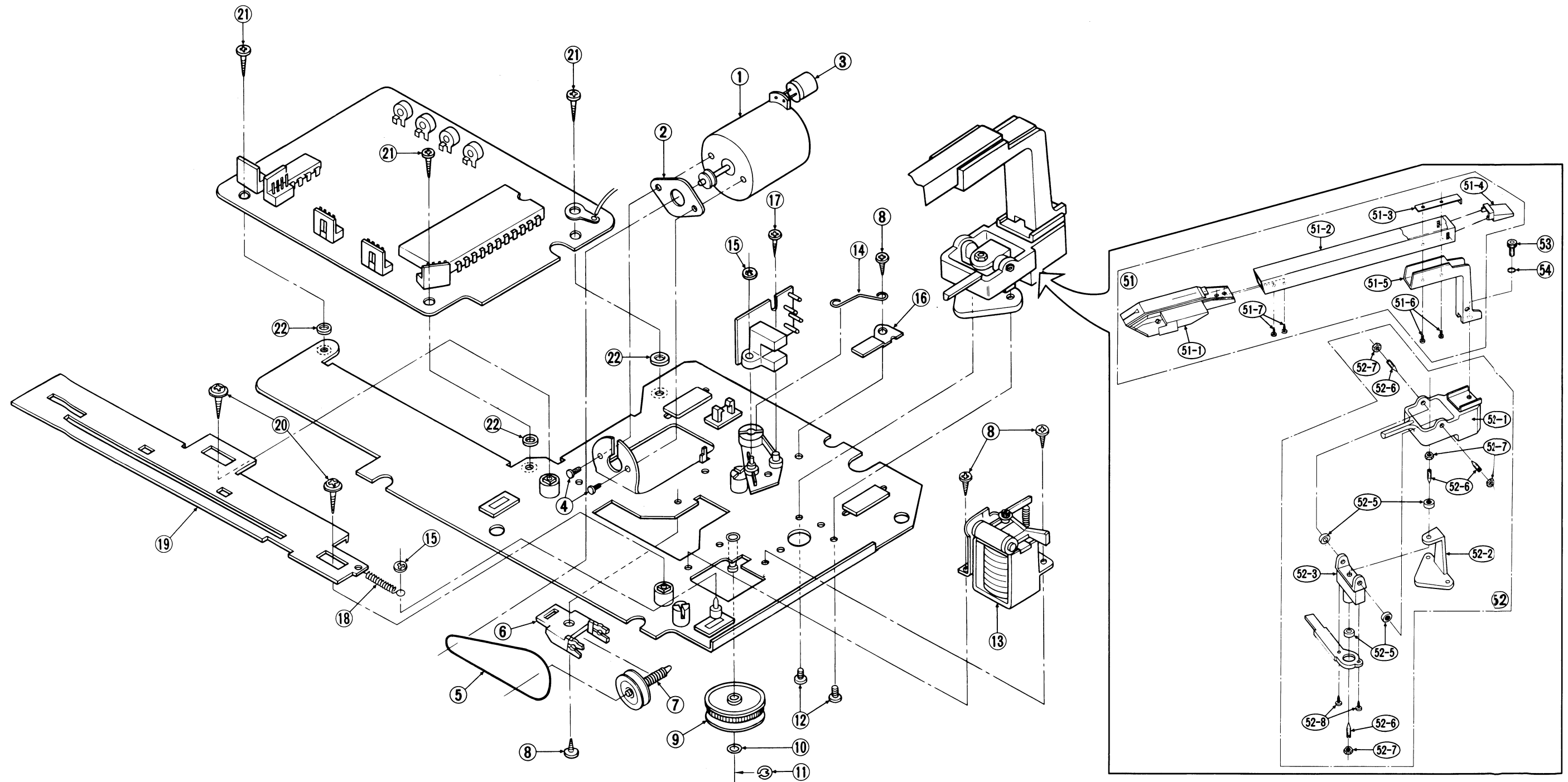
Parts No.	Stock No.	Description
•Diode		
fD3	07176400	1S2473HS
fRL1	46173300	Relay
	46148200	Jack, COMPU SELECTOR, COMPU EDIT

4-15. S-0180 Indicator Circuit Board

Component Side



5. EXPLODED VIEW OF AUTO MECHANISM & PARTS LIST



Parts List

Parts No.	Stock No.	Description
1	13217500	DC Motor
2	55029810	Rubber Cushion
3	00305600	22μF 25V E.B.
4	00436500	M4×2 Pan Head Screw
5	13103800	Belt
6	13098110	Shaft Guide (B)
7	13134200	Warm Shaft Ass'y (B)
8	00454400	M3×6 Binding Head Tapping Screw
9	13215810	Drive Gear
10	51825300	FT3 Thrust Washer
11	00489000	D2 E. Ring
12	00421900	M3×6 Binding Head Screw

Parts No.	Stock No.	Description
13	13216100	Plunger Solenoid Ass'y
14	13229600	Torsion Spring
15	51830000	CS-Type Washer
16	13239200	Protector Plate
17	13226100	M2×4 Binding Head Tapping Screw
18	13111500	Tension Spring (2)
19	13241700	Position Guide
20	51625100	M3×8 Pan Head Tapping Screw
21	00454500	M3×8 Binding Head Tapping Screw
22	13226000	M9 Isolation Washer

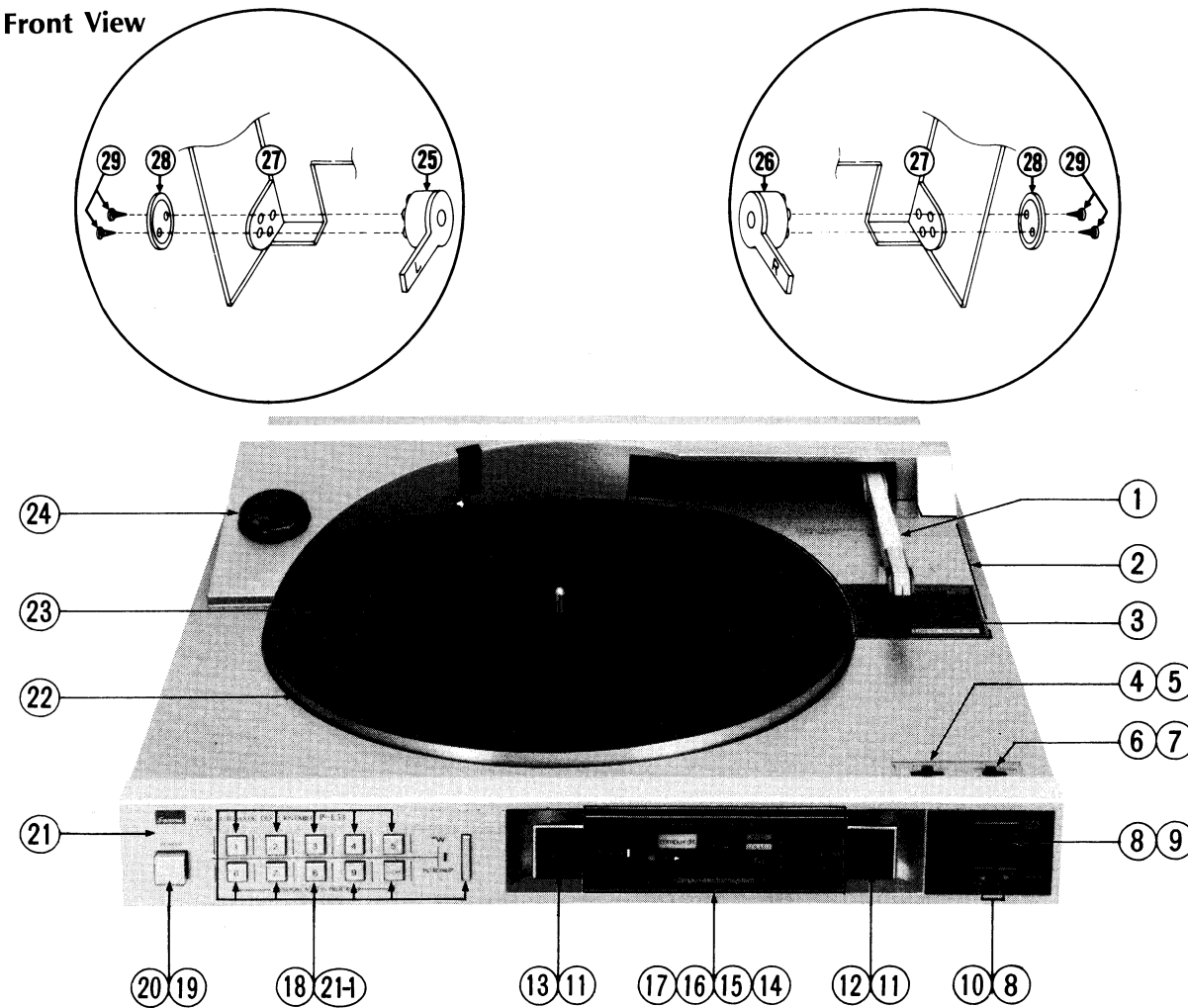
Parts List

Parts No.	Stock No.	Description
51	18084200	Tone Arm Ass'y
51-1	—	SV-S707 Cartridge Ass'y
51-2	—	Pipe
51-3	—	GND Rag
51-4	—	Pipe Cover
51-5	—	Pipe Holder
51-6	—	M2×4 Pan Head Screw
51-7	—	M2×4 Pan Head Tapping Screw
52	18075200	Pivot Ass'y
52-1	—	Arm Bracket

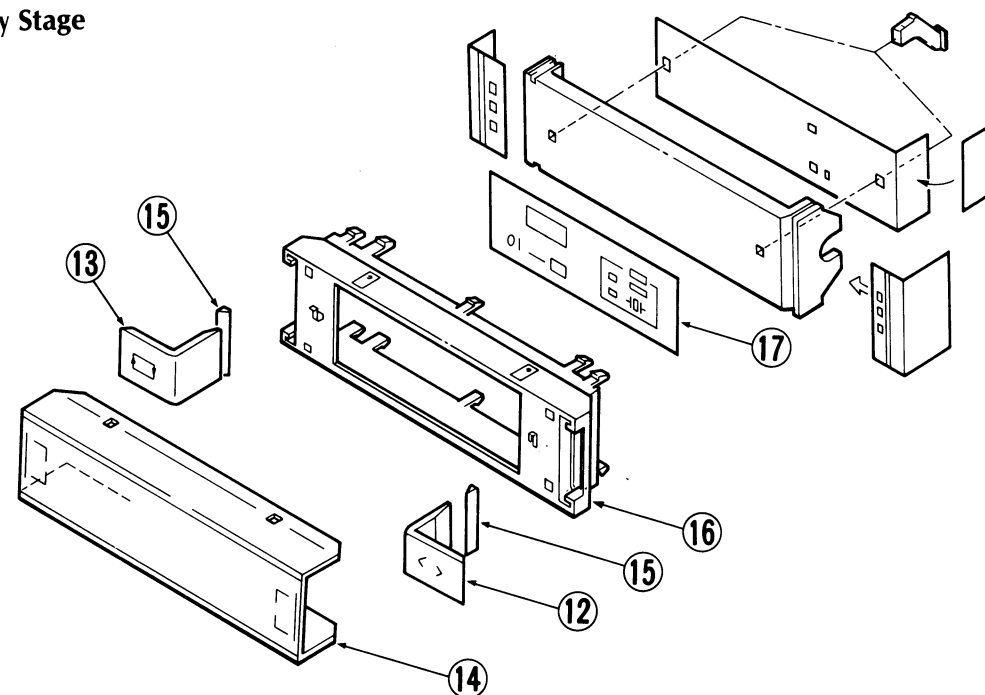
Parts No.	Stock No.	Description
52-2	—	Pivot Stay
52-3	—	Pivot Holder
52-4	—	Servo Plate
52-5	—	Pivot Bearing
52-6	—	Pivot
52-7	—	M3 Hexagon Nut
52-8	—	M2×6 Pan Head Tapping Screw
53	00453500	M4×8 Hexagon Socket Head Screw
54	00469800	D4 Spring Washer

6. OTHER PARTS

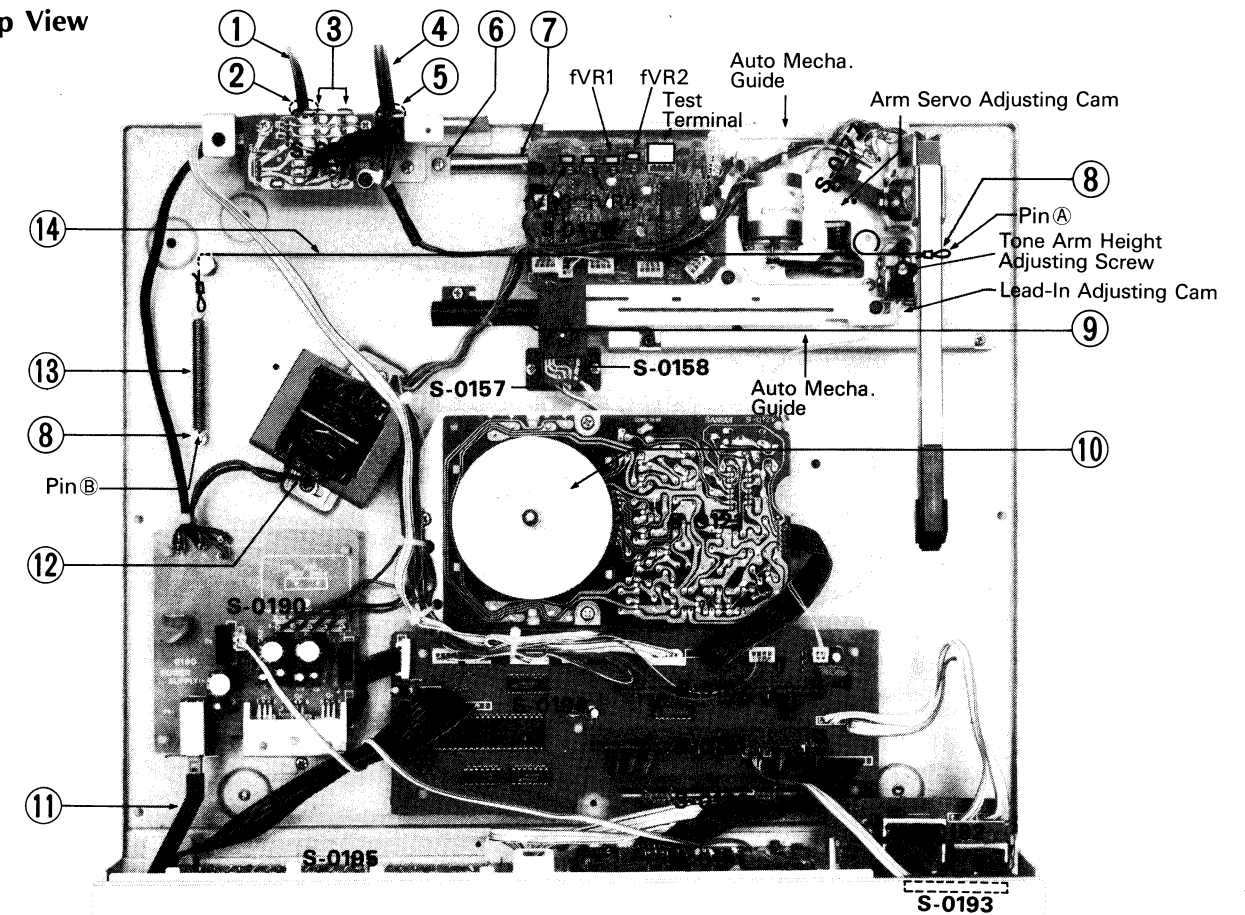
6-1. Front View



6-2. Display Stage



6-3. Top View



Parts List <Front View, Display Stage>

Parts No.	Stock No.	Description
1	18084200	Tone Arm Ass'y with Cartridge SV-707
2	13255400	Player Case Cover (Silver Model)
3	13255300	Player Case Cover (Black Model)
4	13228400	SN-707 Stylus
5	13248400	Slide Knob, SENSITIVITY
6	07249900	Slide SW., SENSITIVITY
7	13141600	Slide Knob, SPEED
8	07249800	Slide SW., SPEED
9	46371600	Push SW., UP/DOWN, MANUAL
10	13139800	Push Knob, UP/DOWN
11	13259200	Push Knob, MANUAL
12	46395900	Push SW., START/STOP, REPEAT
13	47438600	Push Knob, START/STOP
14	47438500	Push Knob, REPEAT
15	13252600	Display Cover
16	07962610	Rubber Cushion
17	13145810	Display Holder
18	13252500	Display Plate
19	46549500	Push SW., INTROSkip, RANDOM ACCESS PROGRAM
20	46413900	Push SW., POWER
21	07971210	Push Knob, POWER (Silver Model)
22	07911210	Push Knob, POWER (Black Model)
23	13248000	Front Panel Ass'y (Silver Model)
24	13248100	Front Panel Ass'y (Black Model)
25	13159710	Push Knob Ass'y, RANDOM ACCESS PROGRAM, INTROSkip
26	13099110	Turntable Platter
27	13099510	Turntable Sheet <XX,CSA,EU,BS,AS>
28	13012300	Turntable Sheet
29	13012300	EP Adaptor
30	13187200	Side Hinge (L)
31	13187300	Side Hinge (R)
32	13247600	Dust Cover Ass'y (Silver Model)
33	13247700	Dust Cover Ass'y (Black Model)

Parts No.	Stock No.	Description
28	13113800	Hinge Cap (Silver Model)
29	13187400	Hinge Cap (Black Model)
30	13115100	M2.6 x 8 Screw (Silver Model)
31	13187500	M2.6 x 8 Screw (Black Model)

Parts List <Top View>

Parts No.	Stock No.	Description
1	46413200	Power Supply Cord <XX,CSA>
2	38004700	Power Supply Cord
3	38004500	Power Supply Cord <EU>
4	38004300	Power Supply Cord <BS>
5	07204200	Power Supply Cord <AS>
6	39106000	Strain Relief <XX,UL,CSA>
7	39104900	Strain Relief <EU,BS,AS>
8	46148200	Jack, COMPU EDIT, COMPU SELECTOR
9	13222400	PU Output Cord
10	13222500	<XX,CSA,EU,BS,AS> PU Output Cord
11	39104900	Strain Relief
12	13106200	Pipe Holder
13	13106000	Pipe (B)
14	00489200	E-Ring 3φ
15	13241600	Angle Rail
16	18022300	DD Motor with Control Circuit Board S-0121
17	47113100	Joint Shaft
18	15008301	Power Transformer <XX>
19	15008302	Power Transformer <UL,CSA>
20	15008305	Power Transformer <EU,BS,AS>
21	13220500	Tension Spring
22	13248500	Drive Wire

*Design and specifications subject to change without notice for improvement.
 *La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
 *Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.



8. MAIN PARTS REPLACEMENT

(See Top View on page 13 and Exploded View of Mechanism on page 12)

8-1. Replacement of Mechanism Assembly

- 1) Take off turntable sheet and turntable platter.
- 2) Remove the player case cover.
- 3) Loosen 7 screws ⑤ (See Fig. 3-9 on page 6).
- 4) Move the tone arm and stop the stylus at a position about 10 cm away from the disc center.
- 5) Remove the cabinet upward slowly.
- 6) Remove the auto mecha. guide. (See Top View on page 13)
- 7) Remove the wire from pin ⑧. (See Top View on page 13)
- 8) Take off the wire from the driving gear ⑨.

8-2. Replacement of Pivot Ass'y ⑫

- 1) Perform the items 1), 2), 3) and 4) "8-1. Replacement of Mechanism Ass'y" first.
- 2) Loosen the hexagon socket head screw ⑬ to remove the tone arm ass'y ⑪.
- 3) Perform the items 6), 7) and 8) "8-1. Replacement of Mechanism Ass'y."
- 4) Remove two screws ⑭ fixing the pivot ass'y under the mechanism chassis.
- 5) Take off the pivot ass'y from the mechanism ass'y.

8-3. Note on Parts Replacement

- 1) When replacing the shaft guide (B) ⑥, the worm gear ass'y (B) ⑦ and the driving gear ⑨, remove under the mechanism chassis.
- 2) When installing the wire, wind round the drive gear and fit the pin ⑧ as shown in Fig. 8-1.
- 3) Refer to Fig. 8-2, when wiring from cartridge (tone arm ass'y ⑪).
- 4) Perform adjustments 3-1, 3-2, 3-3 and 3-6, when replacing a parts of the mechanism ass'y.

Fig.8-1

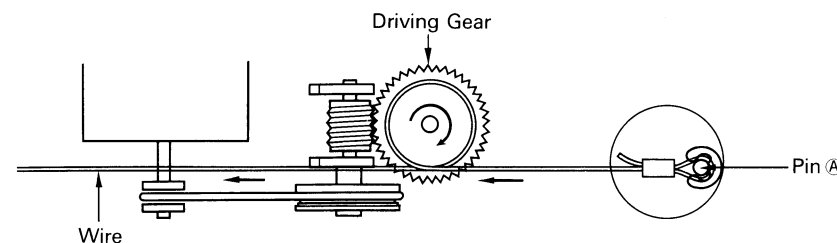
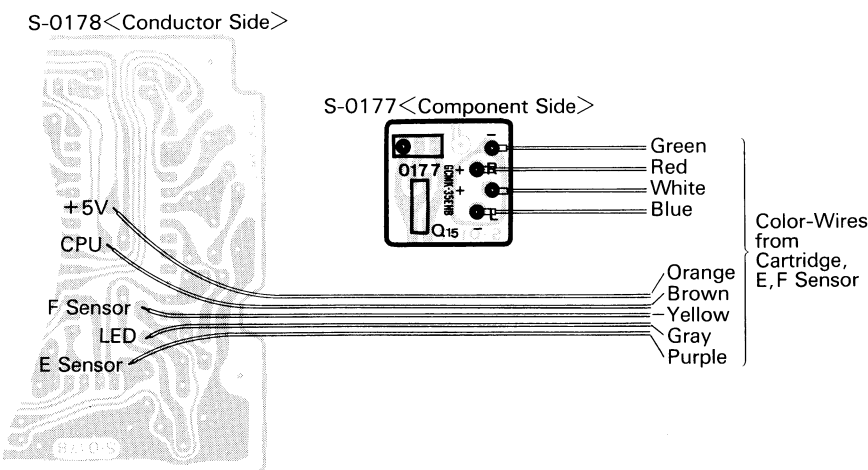


Fig.8-2

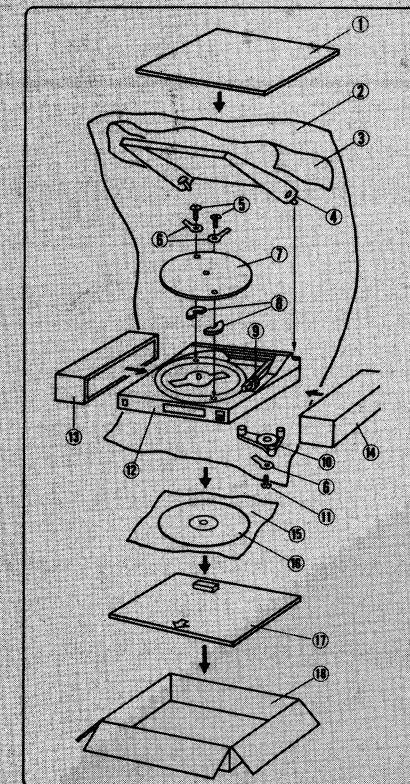


9. PACKING LIST

Parts No.	Stock No.	Description
1		Carugated Board
2	91122710	Vinyl Bag
3		Cover
4	13247600	Dust Cover Ass'y (Silver Model)
	13247700	Dust Cover Ass'y (Black Model)
5	13186800	M4 x 25 Tapping Screw
6	51829200	Tag Washer
7	13159710	Turntable Platter
8	13163200	Spacer
9		Binder
10	13220610	Protector
11	00449700	M4 x 12 Pan Head SEMS Screw
12		Turntable Unit
13	13174800	Styrofoam Packing (Left)
14	13174900	Styrofoam Packing (Right)
15	91166000	Vinyl Bag
16	13099110	Turntable Sheet <XX,CSA, EU,BS,AS>
	13099510	Turntable Sheet
17		Carrugated Board
18	13244800	Carton Case <P-L51 (Silver Model)>
	13244900	Carton Case <P-L51 (Black Model)>
	13245000	Carton Case <P-L51M (Silver Model)>
	13245100	Carton Case <P-L51M (Black Model)>

•Note: There are two types of unit in P-L51.

- 1) The unit with a Dust Cover Ass'y
- 2) The unit without a Dust Cover Ass'y ('M' mark is indicated on the Carton Case)



10. ACCESSORY LIST

Stock No.	Description
46920500	Operating Instruction
46932900	Operating Sheet
46267300	Mini Plug Cord, COMPU SELECTOR

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SANSUI ELECTRONICS (U.K.) LTD.:
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14-1, Izumi 2-chome, Suganami-ku, Tokyo 168 Japan
PHONE: (03) 324-8891/TELEX: 232-2076 (International Division)
1250 Valley Brook Ave. Lyndhurst, N.J. 07071 U.S.A.
17150 South Margay Ave. Carson, California 90746 U.S.A.
3036 Koapaka Street, Honolulu, Hawaii 96819 U.S.A.
Unit 10A, Lyon Industrial Estate, Rockware Avenue, Geesford, Midx UB6, OAA, England
Pau Ehrich Strasse 8, 6074 Rödermark 2, West Germany

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